

Comparisons of Job Characteristics

Focus Occupation: [Control and Valve Installers and Repairers, Except Mechanical Door \(49-9012\)](#)

Associated Occupation: [Electrical and Electronic Engineering Technicians \(17-3023\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 67

Focus Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Computers and Electronics	8.4	15.8	8.2	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	12.4	7.4	<<	Extensive education and/or training may be required
Mechanical	6.8	11.6	13.0	>	Current knowledge level is likely sufficient
Design	5.2	10.2	7.4	<<	Extensive education and/or training may be required
Telecommunications	3.9	8.4	5.8	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 75

Focus Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Quality Control Analysis	5.9	8.8	8.3	0	Current skill level may be sufficient
Troubleshooting	4.5	8.8	7.9	<	A higher skill level may be required
Repairing	3.4	8.0	8.1	0	Current skill level may be sufficient
Equipment Maintenance	3.5	7.9	8.4	0	Current skill level may be sufficient
Equipment Selection	3.3	7.0	6.2	<	A higher skill level may be required
Technology Design	2.6	4.9	2.4	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 74			
Focus Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012) Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	12.2	10.8	<	Some improvement in abilities may be required
Problem Sensitivity	11.1	12.0	9.8	<	Some improvement in abilities may be required
Written Comprehension	11.0	12.0	9.0	<<	Extensive improvement in abilities may be required
Near Vision	11.1	11.6	10.6	0	Current ability level may be sufficient
Oral Expression	12.4	11.6	10.6	0	Current ability level may be sufficient
Deductive Reasoning	10.6	11.1	8.6	<	Some improvement in abilities may be required
Information Ordering	9.9	11.0	9.6	<	Some improvement in abilities may be required
Written Expression	9.8	10.7	8.2	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	9.9	8.6	<	Some improvement in abilities may be required
Visualization	7.5	9.8	8.3	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	9.6	7.2	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 71
Focus Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012) Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)		
Work Activities	Exclusivity of Activity	
Analyze test data	64	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install/connect electrical equipment to power circuit	57	
Read blueprints	10	
Read schematics	34	
Read technical drawings	7	
Repair or replace electrical wiring, circuits, fixtures, or equipment	49	
Set up and operate variety of machine tools	62	

Solder electrical or electronic connections or components	55
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use electronic calibration devices	68
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 78

Focus Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Associated Occupation: Electrical and Electronic Engineering Technicians (17-3023)

Tools and Technologies	Exclusivity
Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Electrical measuring and testing equipment	7
Holding and clamping tools	3
Industry specific software	1
Light and wave generating and measuring equipment	4
Machine tools	7
Power tools	2
Soldering and brazing and welding machinery and supplies	6
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.